



**Program Directory for  
IBM Z Batch Resiliency  
Japanese**

V1.2.0

Program Number 5698-BR1

FMID HBRN120, HCKK120 and JBRN120J

for Use with  
z/OS

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**Note**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 26.

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## 1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Z Batch Resiliency V1.2.0 Japanese. This publication refers to IBM Z Batch Resiliency V1.2.0 Japanese as IZBR JPN.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic program materials and documentation for IZBR JPN.
- 3.0, “Program Support” on page 6 describes the IBM support available for IZBR JPN.
- 4.0, “Program and Service Level Information” on page 8 lists the APARs (program level) and PTFs (service level) that have been incorporated into IZBR JPN.
- 5.0, “Installation Requirements and Considerations” on page 10 identifies the resources and considerations that are required for installing and using IZBR JPN.
- 6.0, “Installation Instructions” on page 18 provides detailed installation instructions for IZBR JPN. It also describes the procedures for activating the functions of IZBR JPN, or refers to appropriate publications.

Before installing IZBR JPN, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this Program Directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 6 tells you how to find any updates to the information and procedures in this Program Directory.

IZBR JPN is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for IZBR JPN are included on the CBPDO tape.

Do not use this program directory if you install IZBR JPN with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

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### 1.1 IZBR JPN Description

IBM Z Batch Resiliency V1.2.0 Japanese delivers high-value resiliency management of non-database managed data and applications by leveraging detailed analytic reporting to provide insights to reduce manual approaches required to manage data outside of database control. By reducing dependency on domain expertise and time-consuming, error-prone analysis to determine the impact of data corruption incidents, application data inter-dependencies and vulnerabilities are determined quickly to reduce enterprise business risk. By integrating with major scheduler, tape management and backup tooling, IBM

Z Batch Resiliency V1.2.0 Japanese builds a comprehensive inventory of data usage and backups to enable quick, automated recovery of business-critical data as part of a robust resiliency strategy.

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## **1.2 IZBR JPN FMID**

IZBR JPN consists of the following FMID:

HBRN120  
HCKK120  
JBRN12J

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for IZBR JPN is 5698-BR1.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by IZBR JPN. Ask your IBM representative for this information if you have not already received a copy.

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### 2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 18 for more information about how to install the program.

Figure 1 describes the program file content for IZBR JPN. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

#### Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

*Figure 1 (Page 1 of 2). Program File Content*

<b>Name</b>	<b>O R G</b>	<b>R E C F M</b>	<b>L R E C L</b>	<b>BLK SIZE</b>
SMPMCS	SEQ	FB	80	8800
IBM.HBRN120.F1	PDS	FB	80	8800
IBM.HBRN120.F2	PDS	FB	80	8800
IBM.HBRN120.F3	PDS	FB	80	8800
IBM.HBRN120.F4	PDS	FBA	133	6118
IBM.HBRN120.F5	PDS	FB	80	8800
IBM.HBRN120.F6	PDSE	U	0	6144
IBM.HBRN120.F7	PDS	FB	80	8800
IBM.HBRN120.F8	PDS	FB	80	8800

Figure 1 (Page 2 of 2). Program File Content

Name	O R G	R E C F M	L R E C L	BLK SIZE
IBM.HBRN120.F9	PDS	FB	80	8800
IBM.HBRN120.F10	PDS	FB	80	8800
IBM.HBRN120.F11	PDS	FB	80	8800
IBM.HBRN120.F12	PDSE	U	0	6144
IBM.HBRN120.F13	PDS	FB	80	8800
IBM.HBRN120.F14	PDSE	U	0	6144
IBM.HBRN120.F15	PDSE	U	0	6144
IBM.HBRN120.F16	PDS	FB	80	8800
IBM.HBRN120.F17	PDS	VB	255	28050
IBM.HBRN120.F18	PDS	VB	259	8800
IBM.HCKK120.F1	PDS	FB	80	8800
IBM.HCKK120.F2	PDS	FB	80	8800
IBM.HCKK120.F3	PDS	FB	80	8800
IBM.HCKK120.F4	PDS	FB	80	8800
IBM.HCKK120.F5	PDSE	U	0	6144
IBM.HCKK120.F6	PDS	FB	80	8800
IBM.JBRN12J.F1	PDS	FB	80	8800
IBM.JBRN12J.F2	PDS	VB	255	28050
IBM.JBRN12J.F3	PDS	FB	80	8800
IBM.JBRN12J.F4	PDS	FB	80	8800
IBM.JBRN12J.F5	PDS	FB	80	8800
IBM.JBRN12J.F6	PDS	FB	80	8800
IBM.JBRN12J.F7	PDS	VB	259	8800

## 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IZBR JPN.



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## 2.3 Program Publications

The following sections identify the basic and optional publications for IZBR JPN.

### 2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IZBR JPN. One copy of each of these publications is included when you order the basic materials for IZBR JPN. Additional copies can be obtained from the IBM Publications Website at URL:

<https://www.ibm.com/docs/en/z-batch-resiliency/1.2.0>

<i>Figure 2. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
IBM Z Batch Resiliency V1.2.0 Japanese License Information CD	LC27-9552
IBM Z Batch Resiliency V1.2.0 Japanese User's Guide and Reference	GC27-9554

### 2.3.2 Optional Program Publications

No optional publications are provided for IZBR JPN.

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for IZBR JPN.

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## 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of IZBR JPN. To order copies, contact your IBM representative or visit the IBM Publications Center at:

<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

<i>Figure 3. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770

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## 3.0 Program Support

This section describes the IBM support available for IZBR JPN.

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### 3.1 Program Services

Contact your IBM representative for specific information about available program services.

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### 3.2 Preventive Service Planning

Before you install IZBR JPN, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK** command. See 6.1.8, "Perform SMP/E APPLY" on page 22 for a sample APPLY command.

If you obtained IZBR JPN individually from IBM Software Distribution, then, before installing IZBR JPN you should also check with your IBM Support Center or use either Information/Access or IBMLink(ServiceLink) to see whether there is any additional PSP information which you should be aware of.

NOTE: The PSP SUBSET name reflects the Function Module Identifier (FMID) that was updated and the corresponding CBPDO weekly service tape that was used to supply the integrated PTFS. (Example; FMID/YYWW, where YY is the year and WW is the week of the CBPDO weekly service tape.).

The CBPDO weekly Service tape is the Service Level Indicator for any products updated by the Software Manufacturing Center (SMC) processes. If you wish to determine the latest level of PUT maintenance installed in this product, please refer to the 'Program and Service Level Information' section of this program directory.

If the CBPDO for IZBR JPN is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www.ibm.com/software/support/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for IZBR JPN are included in Figure 4 on page 7.

<i>Figure 4. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
IZBR	HBRN120	IBM Z Batch Resiliency ENU
IZBR Infra	HCKK120	IBM Z Batch Resiliency Infrastructure
IZBR JPN	JBRN12J	IBM Z Batch Resiliency JPN

### 3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 5 identifies the component IDs (COMPID) for IZBR JPN.

<i>Figure 5. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HBRN120	5698BR100	IBM Z Batch Resiliency	120
HCKK120	5698BR101	IBM Z Batch Resiliency Infrastructure	120
JBRN12J	5698BR100	IBM Z Batch JPN	12J

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IZBR JPN. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

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### 4.1 Program Level Information

The following APAR fixes against previous releases of IZBR JPN have been incorporated into this release. They are listed by FMID.

- FMID HBRN110

PH11843	PH18866	PH28835
PH12458	PH22890	PH28829
PH12664	PH22979	PH29007
PH12692	PH21321	PH30030
PH12907	PH25241	PH30034
PH13131	PH25827	PH30140
PH13894	PH25988	PH30230
PH13984	PH26228	PH31389
PH14122	PH26563	PH33027
PH14818	PH27664	PH33886
PH15471	PH28140	PH34296
PH17729	PH28367	

- FMID HCKK110

PH12758	PH17734	PH30882
PH13315	PH15204	PH33028
PH13895	PH21322	PH34740
PH14819	PH26705	

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### 4.2 Service Level Information

PTFs containing APAR fixes against this release of IZBR JPN have been incorporated into this product package. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

The following PTFs containing APAR fixes against this release of IBM Z Batch Resiliency V1.2.0 Japanese have been integrated into this release.

- FMID HBRN110

UI63501	UI67245	UI71336
UI63502	UI67922	UI71822
UI63522	UI68438	UI71394
UI63523	UI69249	UI71933
UI63524	UI69494	UI72196
UI63677	UI69674	UI72341
UI64059	UI69918	UI72559
UI64060	UI70278	UI73198
UI64061	UI70673	UI71824
UI64594	UI70751	UI73466
UI64937	UI71335	UI73740
		UI74255

- FMID HCKK110

UI63500	UI67270	UI72340
UI63671	UI67271	UI73465
UI64058	UI67920	UI74280
UI64593	UI72034	

Frequently check the IZBR JPN PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIREDSERVICE)** operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IZBR JPN. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.  
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.  
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can assess these impacts without disrupting your production system.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install IZBR JPN.

#### 5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

#### 5.1.2 Programming Requirements

Figure 6. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5650-ZOS	z/OS	V02.03.00	N/A	No

**Note:** Installation might require migration to new z/OS releases to be service supported. See [https://www-03.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](https://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html)

## 5.2 Target System Requirements

This section describes the environment of the target system required to install and use IZBR JPN.

IZBR JPN installs in the z/OS (Z038) SREL.

### 5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

### 5.2.2 Programming Requirements

#### 5.2.2.1 Installation Requisites

Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product.

Figure 7 (Page 1 of 2). Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5698-BR1	IBM Z Batch Resiliency Infrastructure (HCKK120)	V1.2.0	N/A	YES

Figure 7 (Page 2 of 2). Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5698-BR1	IBM Z Batch Resiliency Japanese (JBRN12J)	V1.2.0	N/A	YES

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time.

IZBR JPN has no conditional installation requisites.

#### 5.2.2.2 Operational Requisites

Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

IZBR JPN has no mandatory operational requisites.

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions.

IZBR JPN has no conditional operational requisites.

#### 5.2.2.3 Toleration/Coexistence Requisites

Toleration/coexistence requisites identify products that must be present on sharing systems. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD environment at different time intervals.

IZBR JPN has no toleration/coexistence requisites.

#### 5.2.2.4 Incompatibility (Negative) Requisites

Negative requisites identify products that must *not* be installed on the same system as this product.

IZBR JPN has no negative requisites.



## 5.2.3 DASD Storage Requirements

IZBR JPN libraries can reside on all supported DASD types.

Figure 8 on page 13 lists the total space that is required for each type of library.

<i>Figure 8. Total DASD Space Required by IZBR JPN</i>	
<b>Library Type</b>	<b>Total Space Required in 3390 Trks</b>
Target	3635 TRACKS
Distribution	3760 TRACKS

### Notes:

1. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.
2. Abbreviations used for data set types are shown as follows.
  - U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
  - S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
  - E** Existing shared data set, used by this product and other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information about the names and sizes of the required data sets, see 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 21.

3. All target and distribution libraries listed have the following attributes:
  - The default name of the data set can be changed.
  - The default block size of the data set can be changed.
  - The data set can be merged with another data set that has equivalent characteristics.

4. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.

5. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can be in the LPA, but they are not required to be in the LPA.
- These data sets can be in the LNKLIST.
- These data sets are not required to be APF-authorized.

If your existing SMPLTS is a PDS, you must allocate a new PDSE and copy your SMPLTS into it; then change the SMPLTS DDDEF entry to indicate the new PDSE data set.

The following figures describe the target and distribution libraries required to install IZBR JPN. The storage requirements of IZBR JPN must be added to the storage required by other programs that have data in the same library or path.

**Note:** Use the data in these tables to determine which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 9 (Page 1 of 2). Storage Requirements for IZBR JPN Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SBRNCNTL	Control Members	ANY	U	PDS	FB	80	5	3
SBRNDENU	Tables	ANY	U	PDS	VB	255	15	10
SBRNDOC	Documentation	ANY	U	PDS	FBA	133	45	10
SBRNEXEC	REXX Execs	ANY	U	PDS	FB	80	90	25
SBRNINST	Installation	ANY	U	PDS	FB	80	5	5
SBRNLOAD	Load Modules	ANY	U	PDSE	U	0	1800	n/a
SBRNMENU	ISPF Messages	ANY	U	PDS	FB	80	15	10
SBRNOENU	Tables	ANY	U	PDS	VB	259	15	5
SBRNPENU	ISPF Panels	ANY	U	PDS	FB	80	225	200
SBRNSEN	Samples	ANY	U	PDS	FB	80	15	5
SBRNSKEL	DLIB Input	ANY	U	PDS	FB	80	75	75
SBRNSRCE	Source	ANY	U	PDS	FB	80	75	200
SBRNTENU	ISPF Tables	ANY	U	PDS	FB	80	15	5

Figure 9 (Page 2 of 2). Storage Requirements for IZBR JPN Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SBRNTLOD	Load Modules	ANY	U	PDSE	U	0	450	n/a
SBRNUMAC	Macros	ANY	U	PDS	FB	80	400	400
SCKKCLIB	CLIST	ANY	U	PDS	FB	80	5	5
SCKKCNTL	Control Members	ANY	U	PDS	FB	80	5	5
SCKKINST	Installation	ANY	U	PDS	FB	80	5	5
SCKKLOAD	Modules	ANY	U	PDSE	U	0	90	n/a
SCKKUMAC	Macros	ANY	U	PDS	FB	80	15	5
SBRNDJPN	Tables	ANY	U	PDS	VB	255	30	10
SBRNMJPN	ISPF Messages	ANY	U	PDS	FB	80	15	10
SBRNOJPN	Tables	ANY	U	PDS	VB	259	15	5
SBRNPJPN	ISPF Panels	ANY	U	PDS	FB	80	180	250
SBRNSJPN	Samples	ANY	U	PDS	FB	80	15	5
SBRNTJPN	ISPF Tables	ANY	U	PDS	FB	80	15	5

Figure 10 (Page 1 of 2). Storage Requirements for IZBR JPN Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABRNCNTL	U	PDS	FB	80	5	3
ABRNDENU	U	PDS	VB	255	15	10
ABRNDIOC	U	PDS	FBA	133	45	10
ABRNEXEC	U	PDS	FB	80	90	25
ABRNINST	U	PDS	FB	80	5	5
ABRNLOAD	U	PDSE	U	0	600	n/a
ABRNMENU	U	PDS	FB	80	15	10
ABRNOENU	U	PDS	VB	259	15	5
ABRNPENU	U	PDS	FB	80	225	250
ABRNPGM	U	PDSE	U	0	825	n/a
ABRNSENU	U	PDS	FB	80	15	5

Figure 10 (Page 2 of 2). Storage Requirements for IZBR JPN Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABRNSKEL	U	PDS	FB	80	75	75
ABRNSRCE	U	PDS	FB	80	75	200
ABRNTENU	U	PDS	FB	80	15	5
ABRNTLOD	U	PDSE	U	0	450	n/a
ABRNTPGM	U	PDSE	U	0	450	n/a
ABRNUMAC	U	PDS	FB	80	450	400
ACKKCLIB	U	PDS	FB	80	5	5
ACKKCNTL	U	PDS	FB	80	5	5
ACKKINST	U	PDS	FB	80	5	5
ACKKLOAD	U	PDSE	U	0	90	n/a
ACKKUMAC	U	PDS	FB	80	15	5
ABRNDJPN	U	PDS	VB	255	30	10
ABRNMJPN	U	PDS	FB	80	15	10
ABRNOJPN	U	PDS	VB	259	15	5
ABRNPJPN	U	PDS	FB	80	180	250
ABRNSJPN	U	PDS	FB	80	15	5
ABRNTJPN	U	PDS	FB	80	15	5

## 5.3 FMIDs Deleted

Installing IZBR JPN might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install IZBR JPN into separate SMP/E target and distribution zones.

**Note:** These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

---

## 5.4 Special Considerations

IZBR JPN has no special considerations for the target system.

---

## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IZBR JPN.

Please note the following points:

- If you want to install IZBR JPN into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMP/CSI and the SMP/E control data sets. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at the following url:  
**<http://www.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230>**
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

---

### 6.1 Installing IZBR JPN

#### 6.1.1 SMP/E Considerations for Installing IZBR JPN

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IZBR JPN.

#### 6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 11. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

<i>Figure 11. SMP/E Options Subentry Values</i>		
<b>Subentry</b>	<b>Value</b>	<b>Comment</b>
DSSPACE	300,50,100	Space allocation for SMPTLIB datasets
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

### 6.1.3 SMP/E CALLLIBS Processing

IZBR JPN uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When IZBR JPN is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SCEEBND2
- SCEELKED
- SCEESPC
- SCKKLOAD
- SEAGLMD
- SEZATCP
- SCCNOBJ

**Note:** CALLLIBS uses the previous DDDEFs only to resolve the link-edit for IZBR JPN. These data sets are not updated during the installation of IZBR JPN.

### 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IZBR JPN:

<i>Figure 12. Sample Installation Jobs</i>			
<b>Job Name</b>	<b>Job Type</b>	<b>Description</b>	<b>RELFILE</b>
BRNJALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HBRN120.F2
BRNJDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HBRN120.F2
CKKJALO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HCKK120.F4
CKKJDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HCKK120.F4
BRNJALO1	ALLOCATE	Sample job to allocate target and distribution libraries Japanese	IBM.JBRN12J.F1
BRNJDDF1	DDDEF	Sample job to define SMP/E DDDEFs Japanese	IBM.JBRN12J.F1

You can access the sample installation jobs by performing a SMP/E RECEIVE (refer to 6.1.5, “Perform SMP/E RECEIVE” on page 21) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 12 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```

//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN   DD DSN=IBM.HBRN120.F2,UNIT=tunit,
//          VOL=SER=volser,LABEL=(x,SL),
//          DISP=(OLD,KEEP)
//FILEIN   DD DSN=IBM.HBRN120.F2,UNIT=SYSALLDA,DISP=SHR,
//          VOL=SER=filevol
//OUT       DD DSNAME=jcl-library-name,
//          DISP=(NEW,CATLG,DELETE),
//          VOL=SER=dasdvol,UNIT=SYSALLDA,
//          SPACE=(TRK,(15,5,4))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
          COPY INDD=xxxxIN,OUTDD=OUT
          SELECT MEMBER=(BRNJALO,BRNJDDF)
/*
//STEP2    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN   DD DSN=IBM.HCKK120.F4,UNIT=tunit,
//          VOL=SER=volser,LABEL=(x,SL),
//          DISP=(OLD,KEEP)
//FILEIN   DD DSN=IBM.HCKK120.F4,UNIT=SYSALLDA,DISP=SHR,
//          VOL=SER=filevol
//OUT       DD DSNAME=jcl-library-name,
//          DISP=(NEW,CATLG,DELETE),
//          VOL=SER=dasdvol,UNIT=SYSALLDA,
//          SPACE=(TRK,(15,5,4))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
          COPY INDD=xxxxIN,OUTDD=OUT
          SELECT MEMBER=(CKKJALO,CKKJDDF)
/*
//STEP3    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN   DD DSN=IBM.JBRN12J.F1,UNIT=tunit,
//          VOL=SER=volser,LABEL=(x,SL),
//          DISP=(OLD,KEEP)
//FILEIN   DD DSN=IBM.JBRN12J.F1,UNIT=SYSALLDA,DISP=SHR,
//          VOL=SER=filevol
//OUT       DD DSNAME=jcl-library-name,
//          DISP=(NEW,CATLG,DELETE),
//          VOL=SER=dasdvol,UNIT=SYSALLDA,
//          SPACE=(TRK,(15,5,4))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
          COPY INDD=xxxxIN,OUTDD=OUT
          SELECT MEMBER=(BRNJALO1,BRNJDDF1)
/*

```



See the following information to update the statements in the previous sample:

TAPEIN:

**tunit** is the unit value that matches the product package.

**volser** is the volume serial that matches the product package.

**x** is the tape file number that indicates the location of the data set name on the tape.

See the documentation that is provided by CBPDO for the location of IBM.HBRN120.F3 on the tape.

FILEIN:

**filevol** is the volume serial of the DASD device where the downloaded files reside.

OUT:

**jcl-library-name** is the name of the output data set where the sample jobs are stored.

**dasdvol** is the volume serial of the DASD device where the output data set resides.

SYSIN:

**xxxxIN** is either TAPEIN or FILEIN depending on your input DD statement.

## 6.1.5 Perform SMP/E RECEIVE

If you have obtained IZBR JPN as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IZBR JPN FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

Edit and submit JCL to perform the SMP/E RECEIVE for IZBR JPN

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job CKKJALO, BRNJALO and BRNJALO1 to allocate the SMP/E target and distribution libraries for IZBR JPN. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.7 Create DDDEF Entries

Edit and submit sample job CKKJDDF, BRNJDDF and BRNJDDF1 to create DDDEF entries for the SMP/E target and distribution libraries for IZBR JPN. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

## 6.1.8 Perform SMP/E APPLY

Ensure that you have the latest HOLDDATA; then edit and submit JCL to perform an SMP/E APPLY CHECK for IZBR JPN.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

1. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

2. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is the quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.

If you bypass HOLDS during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

**Note:** The GROUPEXTEND operand indicates that SMP/E applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from APPLY CHECK:** You will receive a return code of 0 if this job runs correctly.

**Expected Return Codes and Messages from APPLY:** You will receive a return code of 0 if this job runs correctly.

After installing new function, you should perform two operations:

1. Create a backup of the updated data sets, including any SMP/E data sets affected, in case something happens to the data sets during the next phase.
2. Do some testing before putting the new function into production.

After you are satisfied that an applied SYSMOD has performed reliably in your target system, you can install it in your distribution libraries using the ACCEPT process.

Another good practice is to accept most SYSMODs, particularly FMIDs, before performing another APPLY process. This provides you the ability to use the RESTORE process of SMP/E and to support the scenario where SMP/E needs to create a new load module from the distribution libraries during the APPLY process.

## 6.1.9 Perform SMP/E ACCEPT

Edit and submit JCL to perform an SMP/E ACCEPT CHECK for IZBR JPN. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of only *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

**Note:** The GROUPEXTEND operand indicates that SMP/E accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from ACCEPT CHECK:** You will receive a return code of 0 if this job runs correctly.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

**Expected Return Codes and Messages from ACCEPT:** You will receive a return code of 0 if this job runs correctly.

## 6.1.10 Cleaning Up Obsolete Data Sets, Paths, and DDDEFs

The following data sets, which were allocated and used by previous release this product, are no longer used in this release. You can delete these obsolete data sets after you delete the previous release from your system.

- SBRNMLIB
- SBRNPLIB
- SBRNSLIB
- SBRNTLIB
- ABRNMLIB

- ABRNPLIB
- ABRNSLIB
- ABRNTLIB
- ACKKPGM

The following DDDEF entries, which were created and used by previous release this product, are no longer used in this release. You can delete these obsolete DDDEF entries after you delete the previous

- SBRNMLIB
- SBRNPLIB
- SBRNSLIB
- SBRNTLIB
- ABRNMLIB
- ABRNPLIB
- ABRNSLIB
- ABRNTLIB
- ACKKPGM

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## 6.2 Activating IZBR JPN

There is no post SMP/E work needed to activate IZBR JPN

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## 7.0 Notices

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